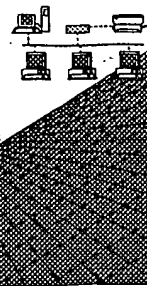


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



01/02

**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/883,343  
Source: 01/02  
Date Processed by STIC: 1/11/2002

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

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**User Manual - ePAVE)**

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U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

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OIPE

## RAW SEQUENCE LISTING

DATE: 01/11/2002

PATENT APPLICATION: US/09/883,343

TIME: 12:25:13

Input Set : A:\ES.txt

Output Set: N:\CRF3\01112002\I883343.raw

**Does Not Comply  
Corrected Diskette Needed**

2 <110> APPLICANT: Stiles, Michael E. Verderas, John C. Van Belkum, Marius J.  
 3 Worobo, Randy W. Worobo, Rodney J. McCormick, John K.  
 4 McMullen, Lynn M. Leisner, Jorgen J. Poon, Alison Franz,  
 W--> 5 <120> TITLE OF INVENTION: Novel Bacteriocins, Transport and Vector System and Method  
 W--> 6 <130> FILE REFERENCE: C60007.1US <140> US 09/883,343 <141> 2001-06-19 <150>  
 C--> 7 <140> CURRENT APPLICATION NUMBER: US/09/883,343  
 C--> 7 <141> CURRENT FILING DATE: 2001-06-19  
 7 <150> PRIOR APPLICATION NUMBER: 1997-09-05 <150> 60/026,257 <151> 1996-09-05 <160> 64  
 W--> 0 <160> NUMBER OF SEQ ID NOS:  
 8 <170> SOFTWARE: PatentIn version 3.1 <210> 1 <211> 184 <212> DNA <213> Leuconostoc

## ERRORED SEQUENCES

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 W--> 9 <220> FEATURE: <221> RBS <222> (24)..(28) <223>  
 W--> 11 <220> FEATURE: <221> CDS <222> (38)..(184) <223>  
 W--> 13 <220> FEATURE: <221> sig\_peptide <222> (38)..(125) <223>  
 W--> 15 <220> FEATURE: <221> primer\_bind <222> (114)..(144) <223>  
 W--> 17 <220> FEATURE: <221> misc\_feature <222> (114)..(119) <223> /label= Restrict\_site  
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 W--> 19 <211> LENGTH:  
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21		Met Lys Lys Gln Ile Leu
22		1 5
24	aaa ggg ttg gtt ata gtt gtt tgt tta tct ggg gca aca ttt ttc tca	103
25	Lys Gly Leu Val Ile Val Val Cys Leu Ser Gly Ala Thr Phe Phe Ser	
26	10 15 20	
28	aca cca caa caa gct tct gct gta aat tat ggt aat ggt gtt tct tgc	151
29	Thr Pro Gln Gln Ala Ser Ala Val Asn Tyr Gly Asn Gly Val Ser Cys	
30	25 30 35	
32	agt aaa aca aaa tgt tca gtt aac tgg gga caa	184
33	Ser Lys Thr Lys Cys Ser Val Asn Trp Gly Gln	
34	40 45	

*All next page*

insert last returns after  
each response

09/883,343

2

SEQUENCE LISTING

<110> Stiles, Michael E. ✓ Verderas, John C. ✓ Van Belkum, Marius J. ✓  
Worobo, Randy W. ✓ Worobo, Rodney J. ✓ McCormick, John K. ✓  
McMullen, Lynn M. ✓ Leisner, Jorgen J. ✓ Poon, Alison ✓ Franz,  
Charles MAP ✓ <120> Novel Bacteriocins, Transport and Vector System and Method  
of Use Thereof ✓ <130> C60007.1US ✓ <140> US 09/883,343 ✓ <141> 2001-06-19 ✓ <150>  
08/924,629 ✓ <151> 1997-09-05 ✓ <150> 60/026,257 ✓ <151> 1996-09-05 ✓ <160> 64 ✓  
<170> PatentIn version 3.1 ✓ <210> 1 ✓ <211> 184 ✓ <212> DNA ✓ <213> Leuconostoc  
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<220> ✓ <221> misc\_feature ✓ <222> (114)..(119) ✓ <223> /label= Restrict\_site  
  
<400> 1

( sampled submitted file )

major format error - please contact Robert Wax  
at 703-306-4119  
or 703-308-4216  
for assistance

see next page

hard return

09/883,343

3

This is a nucleotide sequence

<210> 22 <211> 124 <212> DNA <213> Divergicin signal peptide <220> ↑ <221> ↑  
sig\_peptide <222> (1)..(123) <223>

<220> ↑ <221> CDS <222> (1)..(123) ↑ <223>

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atc ttg gta tca caa act aat ttg gag gtt ggt ata tat gaa aaa aca 48  
Ile Leu Val Ser Gln Thr Asn Leu Glu Val Gly Ile Tyr Glu Lys Thr  
1 5 10 15

aat ttt aaa agg gtt ggt tat agt tgt ttg ttt atc tgg ggc aac att 96  
Asn Phe Lys Arg Val Gly Tyr Ser Cys Leu Phe Ile Trp Gly Asn Ile  
20 25 30

ttt ctc aac acc aca aca agc ttc tgc t 124  
Phe Leu Asn Thr Thr Thr Ser Phe Cys  
35 40

FSI

Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

Please correct  
any sequences  
showing  
similar error

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/883,343

DATE: 01/11/2002

TIME: 12:25:15

Input Set : A:\ES.txt

Output Set: N:\CRF3\01112002\I883343.raw

L:5 M:283 W: Missing Blank Line separator, <120> field identifier  
 L:6 M:283 W: Missing Blank Line separator, <130> field identifier  
 L:7 M:270 C: Current Application Number differs, Replaced Current Application No  
 L:7 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 L:0 M:282 W: Numeric Field Identifier Missing, <160> is required.  
 L:9 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:9 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:11 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:13 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:15 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:17 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:19 M:282 W: Numeric Field Identifier Missing, <210> is required.  
 L:19 M:282 W: Numeric Field Identifier Missing, <211> is required.  
 L:19 M:282 W: Numeric Field Identifier Missing, <212> is required.  
 L:19 M:282 W: Numeric Field Identifier Missing, <213> is required.  
 L:19 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:1  
 L:40 M:282 W: Numeric Field Identifier Missing, <211> is required.  
 L:40 M:282 W: Numeric Field Identifier Missing, <212> is required.  
 L:40 M:282 W: Numeric Field Identifier Missing, <213> is required.  
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 L:549 M:282 W: Numeric Field Identifier Missing, <212> is required.  
 L:549 M:282 W: Numeric Field Identifier Missing, <213> is required.  
 L:572 M:282 W: Numeric Field Identifier Missing, <211> is required.  
 L:572 M:282 W: Numeric Field Identifier Missing, <212> is required.  
 L:572 M:282 W: Numeric Field Identifier Missing, <213> is required.  
 L:595 M:282 W: Numeric Field Identifier Missing, <211> is required.  
 L:595 M:282 W: Numeric Field Identifier Missing, <212> is required.  
 L:595 M:282 W: Numeric Field Identifier Missing, <213> is required.  
 L:732 M:282 W: Numeric Field Identifier Missing, <211> is required.  
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 L:801 M:282 W: Numeric Field Identifier Missing, <211> is required.  
 L:801 M:282 W: Numeric Field Identifier Missing, <212> is required.  
 L:801 M:282 W: Numeric Field Identifier Missing, <213> is required.  
 L:858 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:860 M:282 W: Numeric Field Identifier Missing, <211> is required.  
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 L:860 M:282 W: Numeric Field Identifier Missing, <213> is required.  
 L:931 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:933 M:282 W: Numeric Field Identifier Missing, <211> is required.  
 L:933 M:282 W: Numeric Field Identifier Missing, <212> is required.  
 L:933 M:282 W: Numeric Field Identifier Missing, <213> is required.  
 L:1002 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:1004 M:282 W: Numeric Field Identifier Missing, <211> is required.  
 L:1004 M:282 W: Numeric Field Identifier Missing, <212> is required.  
 L:1004 M:282 W: Numeric Field Identifier Missing, <213> is required.  
 L:1059 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32  
 L:1061 M:282 W: Numeric Field Identifier Missing, <211> is required.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/883,343

DATE: 01/11/2002

TIME: 12:25:15

Input Set : A:\ES.txt

Output Set: N:\CRF3\01112002\I883343.raw

L:1061 M:282 W: Numeric Field Identifier Missing, <212> is required.  
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 L:1190 M:282 W: Numeric Field Identifier Missing, <211> is required.  
 L:1190 M:282 W: Numeric Field Identifier Missing, <212> is required.  
 L:1190 M:282 W: Numeric Field Identifier Missing, <213> is required.  
 L:1225 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:1227 M:282 W: Numeric Field Identifier Missing, <211> is required.  
 L:1227 M:282 W: Numeric Field Identifier Missing, <212> is required.  
 L:1227 M:282 W: Numeric Field Identifier Missing, <213> is required.  
 L:1260 M:282 W: Numeric Field Identifier Missing, <211> is required.  
 L:1260 M:282 W: Numeric Field Identifier Missing, <212> is required.  
 L:1260 M:282 W: Numeric Field Identifier Missing, <213> is required.  
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 L:1295 M:282 W: Numeric Field Identifier Missing, <211> is required.  
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 L:1438 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:1440 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:1442 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:1444 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:1446 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:1448 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:1450 M:282 W: Numeric Field Identifier Missing, <211> is required.  
 L:1450 M:282 W: Numeric Field Identifier Missing, <212> is required.  
 L:1450 M:282 W: Numeric Field Identifier Missing, <213> is required.  
 L:1771 M:256 W: Invalid Numeric Header Field, <220> has non-blank data  
 L:1772 M:259 W: Allowed number of lines exceeded, <220> FEATURE:  
 L:0 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (0) Counted (17)